at1110paper_practice_test (v6)

1. Expand the following expression into standard form.

$$(7x + 8)(2x + 3)$$

2. Solve the equation.

$$(7x + 3)(8x - 5) \;=\; 0$$

3. Expand the following expression into standard form.

$$(7x + 3)(7x - 3)$$

4. Expand the following expression into standard form.

$$(9x + 7)^2$$

5. Factor the expression.
$$x^2 - x - 72$$

6. Factor the expression.
$$49x^2 - 16$$

7. Solve the equation with factoring by grouping.
$$15x^2 + 18x + 20x + 24 \ = \ 0$$

8. Solve the equation.
$$10x^2 - 9x - 11 \ = \ 3x^2 + 2x - 5$$